IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L120-927-CS-SAF12125-PC250-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN from BALLABS TEST NO. 19835.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 2026-05-06
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 6-42 LED 22" ARRAYS 2x4' RECESSED WHITE REFLECTOR LUMINAIRE
[MORE] PAT12 ACRYLIC LENS w/CLEAR ACRYLIC LENS IN DOOR
[LUMCAT] MCTVG-24-L120-927-CS-SAF12125-PC250-DIM-UNV_
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Healthcare, Institutional, Office, Direct, Clean Room
[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9600
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	101.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.57 ft
Luminous Width (90-270)	1.57 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6495	6461	6285
55	5370	5264	4968
65	3893	3847	3570
75	2318	2386	2366
85	506	698	719

Photometric Toolbox (R) Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L120-927-CS-SAF12125-PC250-DIM-UNV_.IES

CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	4182.133	4182.133	4182.133	4182.133	4182.133
5	4202.882	4176.599	4152.161	4142.478	4143.401
10	4140.173	4111.585	4095.447	4084.841	4086.686
15	4038.271	4011.988	4004.611	3982.017	3993.545
20	3890.720	3869.510	3870.432	3838.617	3851.988
25	3689.222	3676.772	3670.317	3638.501	3656.023
30	3447.608	3441.153	3419.481	3378.905	3398.732
35	3146.513	3152.968	3112.853	3048.300	3085.187
40	2787.781	2818.674	2754.121	2682.190	2726.455
45	2400.461	2435.504	2387.550	2300.403	2322.536
50	2007.608	1989.625	1995.620	1898.790	1896.023
55	1609.683	1570.951	1577.867	1488.415	1489.337
60	1215.447	1188.242	1180.865	1099.712	1114.006
65	859.942	842.882	849.798	788.012	788.473
70	562.536	545.937	565.764	540.865	528.415
75	313.545	310.317	322.767	334.294	320.000
80	132.795	128.184	145.245	165.994	148.473
85	23.055	25.821	31.816	47.032	32.738
90	0.000	0.000	0.000	0.000	0.000

Photometric Toolbox (R) Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L120-927-CS-SAF12125-PC250-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1524.37	N.A.	15.90
0-30	3209.83	N.A.	33.40
0-40	5148.19	N.A.	53.60
0-60	8359.49	N.A.	87.10
0-80	9542.55	N.A.	99.40
0-90	9600.03	N.A.	100.00
10-90	9204.72	N.A.	95.90
20-40	3623.82	N.A.	37.70
20-50	5447.6	N.A.	56.70
40-70	4042.1	N.A.	42.10
60-80	1183.06	N.A.	12.30
70-80	352.25	N.A.	3.70
80-90	57.48	N.A.	0.60
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	9600.03	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	395.31
10-20	1129.06
20-30	1685.46
30-40	1938.37
40-50	1823.78
50-60	1387.51
60-70	830.81
70-80	352.25
80-90	57.48
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

Photometric Toolbox (R) Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L120-927-CS-SAF12125-PC250-DIM-UNV_.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	52	61	55	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

Photometric Toolbox (R) Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L120-927-CS-SAF12125-PC250-DIM-UNV_.IES

UGR TABLE - CORRECTED

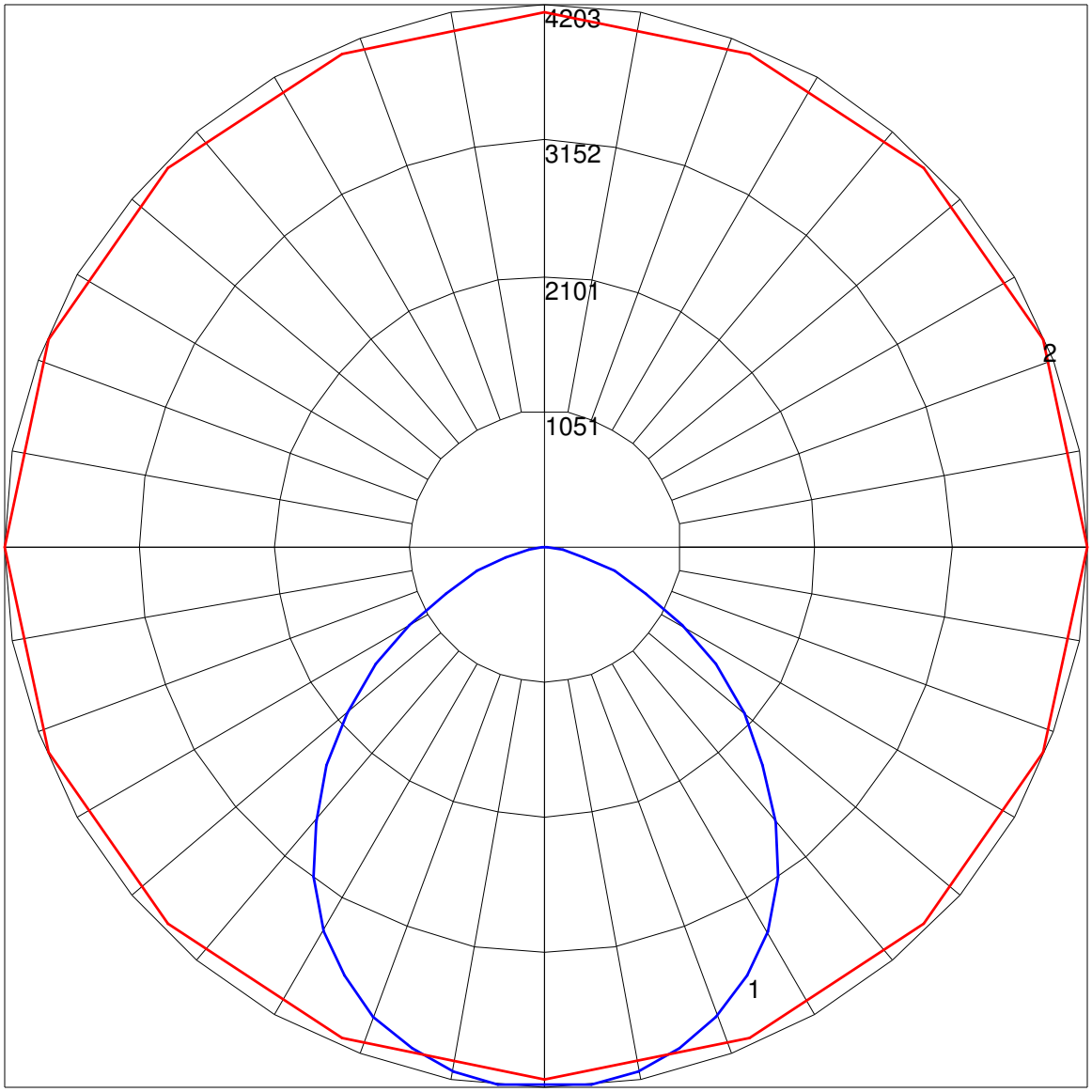
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.4	18.9	17.8	19.2	19.6	16.9	18.5	17.3	18.8	19.1
	3H	18.5	19.9	18.9	20.2	20.5	18.1	19.4	18.4	19.7	20.1
	4H	18.8	20.0	19.2	20.4	20.8	18.4	19.7	18.8	20.0	20.4
	6H	18.9	20.1	19.3	20.4	20.8	18.6	19.7	19.0	20.1	20.5
	8H	18.9	20.0	19.3	20.4	20.8	18.6	19.7	19.0	20.1	20.5
	12H	18.9	19.9	19.3	20.3	20.7	18.6	19.6	19.0	20.0	20.5
4H	2H	17.8	19.1	18.2	19.4	19.8	17.4	18.7	17.8	19.0	19.4
	3H	19.1	20.1	19.5	20.5	20.9	18.7	19.8	19.1	20.2	20.6
	4H	19.4	20.4	19.9	20.8	21.2	19.2	20.1	19.6	20.5	20.9
	6H	19.6	20.4	20.1	20.8	21.3	19.4	20.2	19.9	20.7	21.1
	8H	19.6	20.4	20.1	20.8	21.3	19.4	20.2	19.9	20.6	21.1
	12H	19.6	20.3	20.1	20.7	21.2	19.4	20.1	19.9	20.6	21.1
8H	4H	19.5	20.3	20.0	20.7	21.2	19.3	20.0	19.7	20.5	20.9
	6H	19.7	20.4	20.2	20.8	21.3	19.6	20.2	20.1	20.7	21.2
	8H	19.8	20.3	20.3	20.8	21.3	19.7	20.2	20.2	20.7	21.2
	12H	19.8	20.2	20.3	20.7	21.3	19.7	20.2	20.2	20.7	21.2
12H	4H	19.5	20.2	20.0	20.7	21.1	19.3	19.9	19.7	20.4	20.9
	6H	19.7	20.3	20.3	20.8	21.3	19.6	20.1	20.1	20.6	21.1
	8H	19.8	20.3	20.3	20.8	21.3	19.7	20.2	20.2	20.7	21.2

Maximum UGR = 21.3

Photometric Toolbox (R) Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCTVG-24-L120-927-CS-SAF12125-PC250-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 4202.882 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

Photometric Toolbox (R) Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.